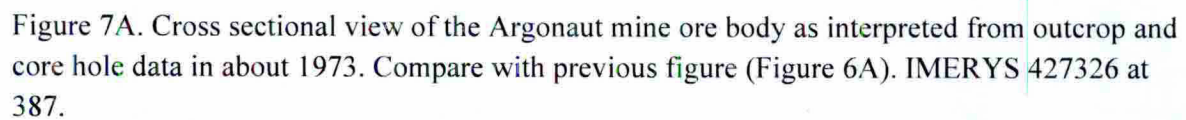


Exhibit 103

Part 2



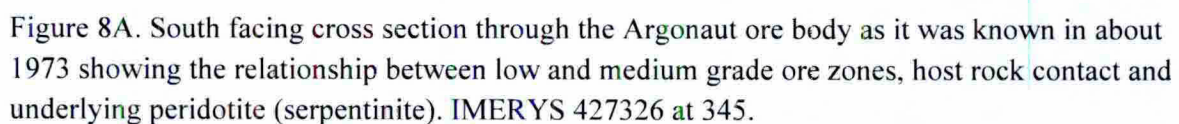


Figure 9A. Cross sectional view of the Argonaut ore body based on outcrop and core hole data. Note radical change from cross sections in previous three figures and the distribution of non-ore rock units with respect to potential mining practices. IMERYYS 427326 at 381.

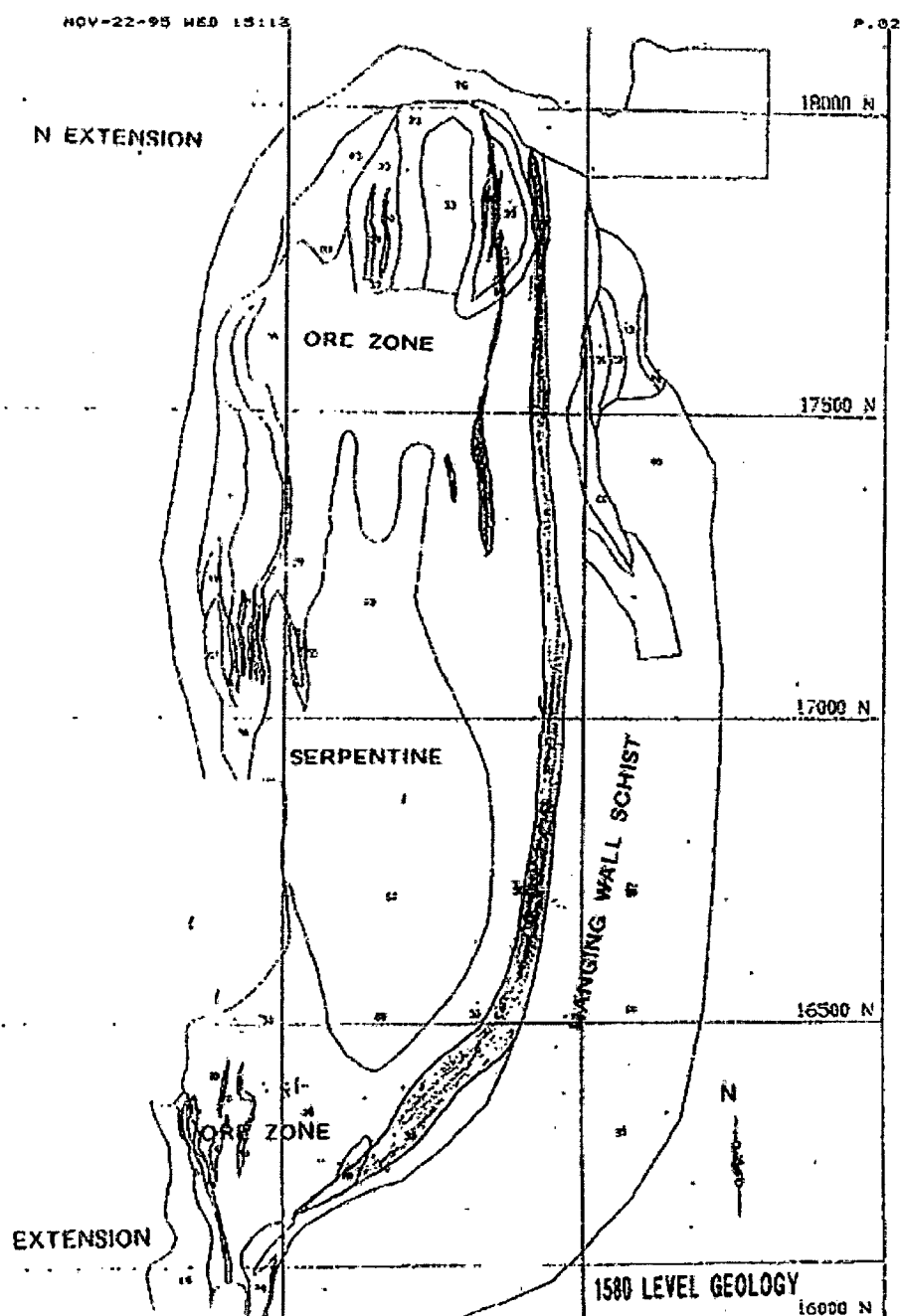


Figure 10A. Plan view of the Argonaut mine ore body as it was known in November 1995. Note narrow aspect of ore zone on the south east side of deposit and irregular relationship between ore and non-ore at north and south ends, suggesting the need for careful selective mining. IMERYS 418940 at 945.

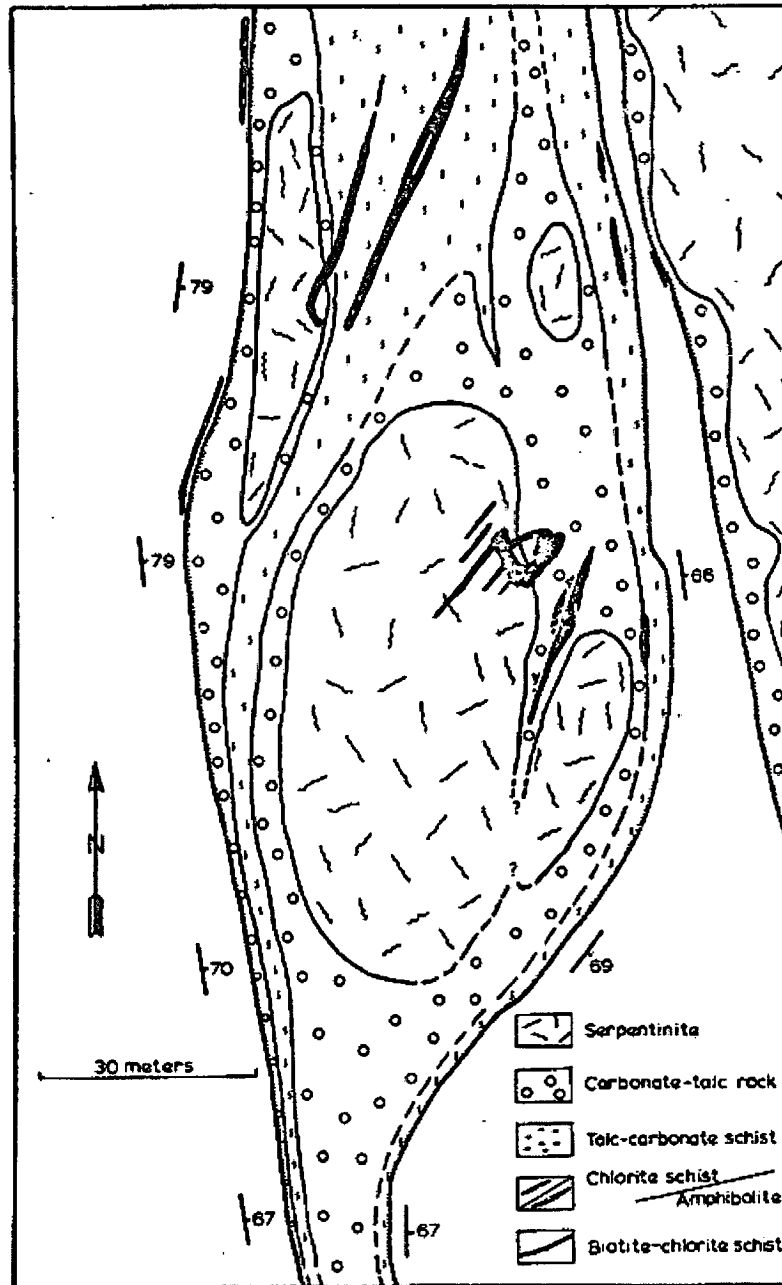
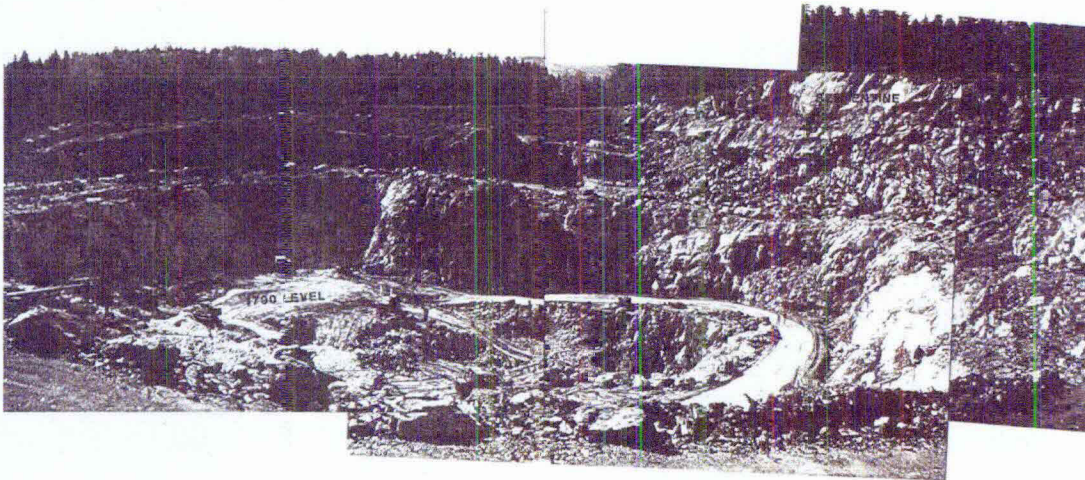


Figure 11A. Geologic sketch map of the Frostbite deposit as it was known in about 1978 illustrating the locally complex relationship between ore and host rock units suggestive of the need for careful selective mining. IMERYYS 436972 at 7025.

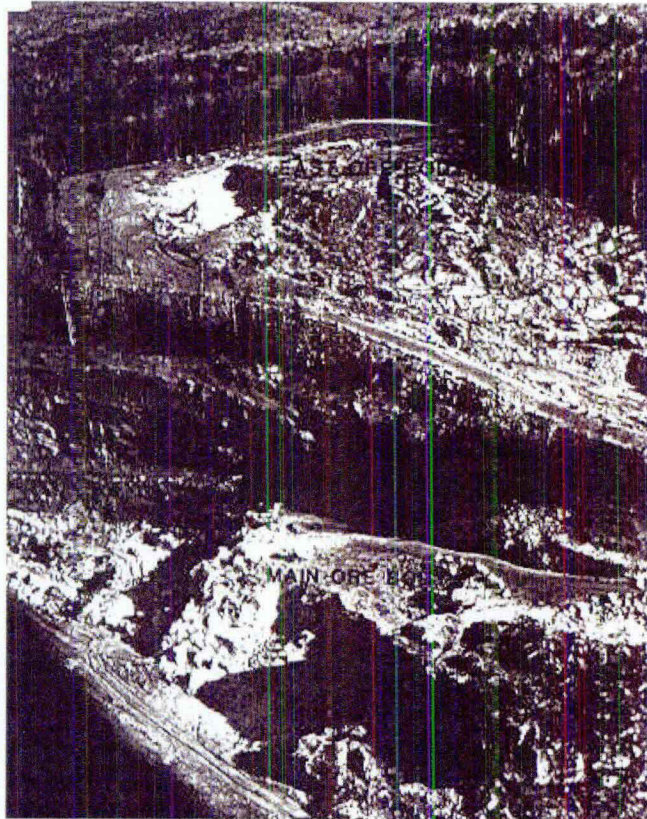
APPENDIX B

Illustrative Photographs of Vermont Mining Operations

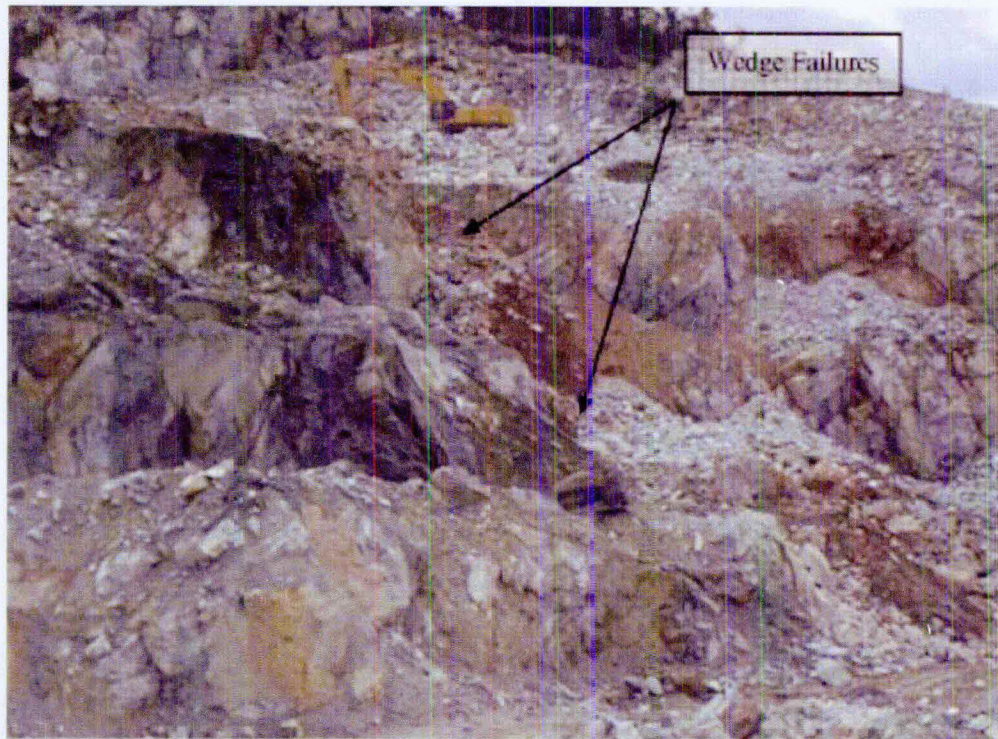


HAMM MINE - Sept. 1991

IMERYS436951, at 960.



IMERYS 436652 (Argonaut 1991)



IMERY501883, AT P. 895 (Argonaut) (2005).



Photograph 4: Lamprophyre dikes in east wall of South Pit with overhanging bench faces where dikes occur near base of bench.

IMERY501883, at 896 (2005).



Exhibit 24, Downey Dep. (Argonaut) (pre-2002).



Exhibit 24, Downey Dep. (Argonaut 2002) (Pre-2002).



Exhibit 24, Downey Dep. (Argonaut) (Pre-2002).

Exhibit A

CURRICULUM VITAE**Robert B. Cook, Jr.**

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EDUCATION:

E.M., Mining Engineering, Colorado School of Mines, 1966
M.S., Geology, University of Georgia, 1968
Ph.D., Geology, University of Georgia, 1971

Professional Registration: Georgia #009; Registered Professional Geologist
Florida #0033; Registered Professional Geologist
Alabama #007; Registered Professional Geologist

EXPERIENCE:**Major Positions:****Current**

Professor Emeritus, Auburn University, Department of Geosciences
President- Alabama Resource Management, Inc.
Treasurer- Deep South PGM, LLC
Managing Partner- Southeast Metals

1972-2007

Assistant Professor - Associate Professor – Professor; Department of Geology, Auburn University; tenured September 1, 1977; Graduate Faculty 1981- 2007;
Department Head May 15, 1984- September 15, 2005

1970-1972; 1973-1975

Staff exploration geologist, Lindgren Exploration Company, Wayzata, Minnesota

SIGNIFICANT HONORS AND AWARDS:

Uranium mineral bobcookite named in his honor, 2014
Robert B. Cook Endowed Chair in Geology established at Auburn University, 2009
Charles A. Salotti National Earth Science Education Award, 2006
Best Paper for year 2002- Rocks and Minerals, Friends of Mineralogy
American Federation of Mineralogical Societies, 1999 Scholarship Award
Sigma Xi, The National Research Society, 1990; President- Auburn Chapter, 1997-1998
Invited Research Scholar - Chinese Education Commission, 1990
Invited Participant - United Nations Senior Technical Advisor Program - PRC, 1991
Chairman and Vice President, Alabama Academy of Science, Geology Section, 1975-1977
Phi Kappa Phi, 1968

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

American Institute of Mining and Metallurgical Engineers (inactive)
Geological Society of America (inactive)
Alabama Geological Society
Georgia Geological Society (inactive)
Society of Exploration Geochemists
Society of Economic Geologists (Fellow; inactive)
Friends of Mineralogy (inactive member, former member Board of Directors)

PUBLICATIONS:

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SERVICE TO THE PROFESSION:

External Geology Program evaluator, State of Georgia, 2003
Chairman, Mineralogical Society of America Annual Symposium, 2001-2004, 2006
Member, Alabama Geologist Licensing Board, 1995 - 2001.
Executive Editor, Rocks and Minerals, 1978-1982, 1988-present.
Session/symposium chairman for Geological Society of America meetings, 1979, 1989, and 1998.
Session chairman for Alabama Academy of Science, 1978.
Field trip leader, Alabama and Georgia Geological Societies; 1975, 1981, 1984, 1987, 1996, 2007.

CONSULTANCIES:

Callahan Mining Corporation (tin, gold, and base metals exploration)
Cyprus Mines Corporation (massive sulfide exploration)
Kennecott Copper Company (gold exploration)
Conoco Minerals (copper, zinc, and gold exploration)
Orvana Minerals/Placer Dome (gold exploration)
BHP, Inc. (gold and base metals exploration)
GCO Minerals (uranium exploration; diamond exploration)
FMC Gold Corporation (gold exploration)
Hanson America (quarry development; quality contro; expert witness)
Martin Marietta Aggregates (reserve estimation and environmental geology)
Vulcan Materials (quarry resource development)
Florida Rock Industries (quarry development)
SRM Aggregates (quarry development and quality control)
Oldcastle Materials (environmental geology, quarry development)
APAC-Midsouth (environmental geology, quarry development)
Lafarge Aggregates (quality control)
Phears and Moldovan (concrete litigation)
United States Department of Justice (expert Witness)
United States Department of Defense as third party contractor (environmental assessment)
National Aeronautics and Space Administration (environmental assessment of five facilities)
Southwire Corporation (environmental assessment through Williams Engineering)
Progress Rail Corporation (environmental assessment)
Hydrological studies have been conducted for the following municipalities: Orange Beach, Selmont, Union Springs, Anniston, and Vance, Alabama

Exhibit B

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Depositions

- Deposition and Exhibits of Alice M. Blount (Ingham) (April 13, 2018)
- Deposition and Exhibits of Donald Hicks & Exhibits (June 28-29, 2018)
- Deposition and Exhibits of John Hopkins & Exhibits (August 16-17, October 17, November 5, 2018)
- Deposition and Exhibits of Julie Pier & Exhibits (September 12-13, 2018)
- Deposition and Exhibits of Patrick Downey (August 7-8, 2018)
- Deposition and Exhibits of Joanne Waldstreicher (Ingham) (April 19, 2017)
- Deposition of Dr. William Glassley (June 17, 2014)

Documents

IMA-NA0000546
IMERYS 033690
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Materials and Data Considered

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PCPC0071076
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